

TABLE 1

		Capacitance (μ F at 120 Hz)	Withstand Voltage (V)
Example 1		0.0086	30.5
Comparative example 1		0.0085	25.0
Example 2	(A)	0.0086	30.0
	(B)	0.0082	29.5
	(C)	0.0084	30.5
	(D)	0.0087	29.0
Example 3	(A)	0.0084	29.0
	(B)	0.0085	29.5
	(C)	0.0084	29.0
Example 4	(A)	0.0085	29.5
	(B)	0.0086	29.0
	(C)	0.0088	28.5
Example 5		0.0084	31.0
Comparative example 2		0.0086	26.0
Example 6	(A)	0.0087	30.5
	(B)	0.0086	30.5
	(C)	0.0082	30.0
	(D)	0.0087	29.5
Example 7	(A)	0.0089	29.5
	(B)	0.0086	29.5
	(C)	0.0085	30.0
Example 8	(A)	0.0087	29.5
	(B)	0.0083	30.5
	(C)	0.0084	30.0
Example 9		0.0082	29.5
Comparative example 3		0.0084	25.5
Example 10	(A)	0.0088	29.5
	(B)	0.0084	30.0
	(C)	0.0087	30.0
	(D)	0.0086	29.5
Example 11	(A)	0.0083	29.5
	(B)	0.0084	29.0
	(C)	0.0086	30.0
Example 12	(A)	0.0085	29.5
	(B)	0.0084	29.0
	(C)	0.0087	29.0

Example 13		0.0231	31.0
Comparative example 4		0.0234	27.0
Example 14		69.5	25.5
Comparative example 5		68.8	20.5
Example 15		0.0086	31.5
Comparative example 6		0.0084	26.0
Example 16	(A)	0.0082	31.5
	(B)	0.0083	30.5
	(C)	0.0084	31.0
	(D)	0.0085	31.0
	(E)	0.0084	31.5
Example 17		0.0085	30.5
Comparative example 7		0.0082	25.0
Example 18		0.0083	31.0
Comparative example 8		0.0083	20.5
Example 19		0.0081	31.0
Example 20	(A)	0.0081	32.0
	(B)	0.0080	32.5
	(C)	0.0082	32.5
	(D)	0.0080	32.0
Example 21		51.6	46.5
Comparative example 9		51.4	34.5
Example 22		50.8	48.0
Comparative example 10		50.5	35.0
Example 23		50.9	50.0

Table 2

	Initial characteristics				After 500h loading test at 85°C,85%RH			
	Capacitance (μF)	$\tan \delta$ (%)	Impedance ($\text{m}\Omega$)	Leak current (μA)	Capacitance (μF)	$\tan \delta$ (%)	Impedance ($\text{m}\Omega$)	Leak current (μA)
Example 24	16.5	2.5	35	0.041	15.6	3.4	43	0.12
Comparative example 10	16.2	2.2	31	0.15	13	8.6	135	1.15
Example 25	16.4	2.4	36	0.042	15.5	3.3	45	0.14
Example 26	16.3	2.1	30	0.055	15.3	2.8	38	0.095
Example 27	16.0	2.3	32	0.034	14.9	3.0	41	0.083
Comparative example 11	15.9	3.6	51	0.063	13.6	6.6	86	0.64

Table 3

		Capacitance (μ F, at 1kHz)	$\tan \delta$ (%, at 1kHz)	Leak current (nA, at 13V, 2min.)
Example 28	(A)	23.8	1.9	15
	(B)	24.0	2.0	18
	(C)	23.6	1.8	20
Comparative example 12	(A)	23.4	2.7	47
	(B)	16.9	3.8	125
Example 29	(A)	23.5	3.1	16
	(B)	24.1	2.0	14
Example 30	(A)	23.6	2.0	17
	(B)	23.8	1.8	18
	(C)	24.2	1.8	14
Example 31		23.9	1.9	16
Example 32		24.3	1.8	23
Example 33		24.1	2.1	13
Example 34		23.7	1.9	18
Example 35		0.66	1.1	0.24
Comparative example 13	(A)	0.62	1.4	1.3
	(B)	0.41	2.1	3.1